**Data**

**Data sources**

* I will get the neighborhood data of Hamburg from Wikipedia
* I will use python geocoder library to get geographical coordinates of neighborhoods
* I will use **Foursquare API** **venues explore** method to get the venues of given neighborhoods of Hamburg
* I will use **Foursquare API venues method** to get ranks and likes of restaurants by given venue id.

**Feature Selection and Data Usage**

Neighborhood location values will be used to analyze Hamburg geographical structure. Folium library of python will be needed to draw maps by using given latitude and longitudes of neighborhoods.

Populations of neighborhoods may be useful to find a proper region for a new restaurant.

Neighborhoods will be classified by using venues distribution and counts. In this way, similarities of neighborhoods will help to choose location for opening a new restaurant.

Venue list category will be needed to find distribution of restaurants and Iranian restaurants in neighborhoods.

I also will use also ratings and likes of restaurants in the areas. It may help me to find location with low rating restaurants which may need a new restaurant.